Mark J Van Gils

List of Publications by Year
in descending order

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88 papers	2,689 citations	218381 26 h-index	205818 48 g-index
90 all docs	90 docs citations	90 times ranked	3856 citing authors

#	Article	IF	Citations
1	Integrating data from multiple Finnish biobanks and national health-care registers for retrospective studies: Practical experiences. Scandinavian Journal of Public Health, 2022, 50, 482-489.	1.2	7
2	Digitally Supported Lifestyle Intervention to Prevent Type 2 Diabetes Through Healthy Habits: Secondary Analysis of Long-Term User Engagement Trajectories in a Randomized Controlled Trial. Journal of Medical Internet Research, 2022, 24, e31530.	2.1	9
3	DiHECO â€“ Digital healthcare ecosystem research and networking. Finnish Journal of EHealth and EWelfare, 2022, 14, .	0.0	0
4	A smart hospital-driven approach to precision pharmacovigilance. Trends in Pharmacological Sciences, 2022, 43, 473-481.	4.0	5
5	Pharmacogenetics of Anticoagulation and Clinical Events in Warfarin-Treated Patients: A Register-Based Cohort Study with Biobank Data and National Health Registries in Finland. Clinical Epidemiology, 2021, Volume 13, 183-195.	1.5	9
6	Evaluation of machine learning algorithms for health and wellness applications: A tutorial. Computers in Biology and Medicine, 2021, 132, 104324.	3.9	56
7	Pharmacogenetics of Bleeding and Thromboembolic Events in Direct Oral Anticoagulant Users. Clinical Pharmacology and Therapeutics, 2021, 110, 768-776.	2.3	25
8	ENVISION â€“ Improve intensive care of COVID-19 patients with artificial intelligence. Finnish Journal of EHealth and EWelfare, 2021, 13, .	0.0	0
9	Admission Levels of Interleukin 10 and Amyloid Î² 1â€“40 Improve the Outcome Prediction Performance of the Helsinki Computed Tomography Score in Traumatic Brain Injury. Frontiers in Neurology, 2020, 11, 549527.	1.1	8
10	Detecting Amyloid Positivity in Elderly With Increased Risk of Cognitive Decline. Frontiers in Aging Neuroscience, 2020, 12, 228.	1.7	9
11	cCOG: A webâ€based cognitive test tool for detecting neurodegenerative disorders. Alzheimer's and Dementia: Diagnosis, Assessment and Disease Monitoring, 2020, 12, e12083.	1.2	9
12	Gait disturbances are associated with increased CSF tau levels in a memory clinic cohort. Alzheimer's and Dementia, 2020, 16, e040152.	0.4	0
13	Differential diagnosis of dementia combining webâ€based cognitive testing and MRI. Alzheimer's and Dementia, 2020, 16, e042626.	0.4	0
14	Admission Levels of Total Tau and Î²-Amyloid Isoforms 1â€“40 and 1â€“42 in Predicting the Outcome of Mild Traumatic Brain Injury. Frontiers in Neurology, 2020, 11, 325.	1.1	11
15	Interleukin 10 and Heart Fatty Acid-Binding Protein as Early Outcome Predictors in Patients With Traumatic Brain Injury. Frontiers in Neurology, 2020, 11, 376.	1.1	20
16	Gait Disturbances are Associated with Increased Cognitive Impairment and Cerebrospinal Fluid Tau Levels in a Memory Clinic Cohort. Journal of Alzheimer's Disease, 2020, 76, 1061-1070.	1.2	13
17	Metabolic Profiles Help Discriminate Mild Cognitive Impairment from Dementia Stage in Alzheimerâ€™s Disease. Journal of Alzheimer's Disease, 2020, 74, 277-286.	1.2	13
18	Piloting a Smart Rollator: User experiences with technology-related motivation and physical activity. Gerontechnology, 2020, 20, 1-10.	0.0	3

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19	A Decision Support System for Diagnostics and Treatment Planning in Traumatic Brain Injury. IEEE Journal of Biomedical and Health Informatics, 2019, 23, 1261-1268.	3.9	10
20	Prediction models for dementia and neuropathology in the oldest old: the Vantaa 85+ cohort study. Alzheimer's Research and Therapy, 2019, 11, 11.	3.0	37
21	â€œOPTImALâ€• an ontology for patient adherence modeling in physical activity domain. BMC Medical Informatics and Decision Making, 2019, 19, 92.	1.5	7
22	Impact of a clinical decision support tool on prediction of progression in early-stage dementia: a prospective validation study. Alzheimer's Research and Therapy, 2019, 11, 25.	3.0	23
23	Multivariate Prediction of Hippocampal Atrophy in Alzheimerâ€™s Disease. Journal of Alzheimer's Disease, 2019, 68, 1453-1468.	1.2	2
24	Automatically computed rating scales from MRI for patients with cognitive disorders. European Radiology, 2019, 29, 4937-4947.	2.3	23
25	Detecting frontotemporal dementia syndromes using MRI biomarkers. NeuroImage: Clinical, 2019, 22, 101711.	1.4	35
26	Impact of a Clinical Decision Support Tool on Dementia Diagnostics in Memory Clinics: The PredictND Validation Study. Current Alzheimer Research, 2019, 16, 91-101.	0.7	23
27	Correlation of Blood Biomarkers and Biomarker Panels with Traumatic Findings on Computed Tomography after Traumatic Brain Injury. Journal of Neurotrauma, 2019, 36, 2178-2189.	1.7	56
28	Early Levels of Glial Fibrillary Acidic Protein and Neurofilament Light Protein in Predicting the Outcome of Mild Traumatic Brain Injury. Journal of Neurotrauma, 2019, 36, 1551-1560.	1.7	56
29	Automatic MRI Quantifying Methods in Behavioral-Variant Frontotemporal Dementia Diagnosis. Dementia and Geriatric Cognitive Disorders Extra, 2018, 8, 51-59.	0.6	19
30	Platform for systems medicine research and diagnostic applications in psychotic disordersâ€”The METSY project. European Psychiatry, 2018, 50, 40-46.	0.1	14
31	Validation of prognostic biomarker scores for predicting progression of dementia in patients with amnestic mild cognitive impairment. Nuclear Medicine Communications, 2018, 39, 297-303.	0.5	6
32	Disease-related determinants are associated with mortality in dementia due to Alzheimerâ€™s disease. Alzheimer's Research and Therapy, 2018, 10, 23.	3.0	20
33	Reproducibility of standardized fine motor control tasks and age effects in healthy adults. Measurement: Journal of the International Measurement Confederation, 2018, 114, 177-184.	2.5	4
34	Quantitative EEG Parameters for Prediction of Outcome in Severe Traumatic Brain Injury: Development Study. Clinical EEG and Neuroscience, 2018, 49, 248-257.	0.9	45
35	P1â€328: CONSISTENCY OF MUISTIKKO WEBâ€BASED COGNITIVE TEST WHILE PERFORMED AT CLINIC AND AT HOME. Alzheimer's and Dementia, 2018, 14, P418.	0.4	0
36	P2â€350: DETECTING FRONTOTEMPORAL DEMENTIA USING A NOVEL MRI IMAGING BIOMARKER: THE ANTERIOR VERSUS POSTERIOR INDEX. Alzheimer's and Dementia, 2018, 14, P821.	0.4	0

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37	P2â€349: DIFFERENT COMBINATIONS OF DIAGNOSTIC TESTS DISCRIMINATE SPECIFIC SUBTYPES OF DEMENTIA. Alzheimer's and Dementia, 2018, 14, P820.	0.4	0
38	Evaluating combinations of diagnostic tests to discriminate different dementia types. Alzheimer's and Dementia: Diagnosis, Assessment and Disease Monitoring, 2018, 10, 509-518.	1.2	19
39	Overview of Health Behavior Change Interventions to Promote Physical-activity-related Adherence in Patients with Heart Disease. IFMBE Proceedings, 2018, , 286-289.	0.2	1
40	Graphical Tasks to Measure Upper Limb Function in Patients With Parkinson's Disease: Validity and Response to Dopaminergic Medication. IEEE Journal of Biomedical and Health Informatics, 2017, 21, 283-289.	3.9	21
41	Glial Fibrillary Acidic Protein and Ubiquitin C-Terminal Hydrolase-L1 Are Not Specific Biomarkers for Mild CT-Negative Traumatic Brain Injury. Journal of Neurotrauma, 2017, 34, 1427-1438.	1.7	76
42	[P1â€“009]: DETECTING COGNITIVE DISORDERS USING THE MUISTIKKO WEBâ€BASED COGNITIVE TEST BATTERY: VALIDATION IN THREE COHORTS. Alzheimer's and Dementia, 2017, 13, P234.	0.4	0
43	Procedures for Evaluating the Adequacy of Anesthesia. Critical Reviews in Biomedical Engineering, 2017, 45, 187-218.	0.5	3
44	The Levels of Glial Fibrillary Acidic Protein and Ubiquitin C-Terminal Hydrolase-L1 During the First Week After a Traumatic Brain Injury. Neurosurgery, 2016, 79, 456-464.	0.6	76
45	Glial Fibrillary Acidic Protein and Ubiquitin C-Terminal Hydrolase-L1 as Outcome Predictors in Traumatic Brain Injury. World Neurosurgery, 2016, 87, 8-20.	0.7	98
46	Comparison of train-of-four ratios measured with Datex-Ohmedaâ€™s M-NMT MechanoSensorâ„¢ and M-NMT ElectroSensorâ„¢. Journal of Clinical Monitoring and Computing, 2016, 30, 295-300.	0.7	14
47	Distinguishing Parkinson's disease from other syndromes causing tremor using automatic analysis of writing and drawing tasks. , 2015, , .		5
48	176â€ƒThe Levels of GFAP and UCH-L1 During the First Week After a Traumatic Brain Injuryâ€”Correlations With Clinical and Imaging Findings and Outcome. Neurosurgery, 2015, 62, 224.	0.6	0
49	Telemonitoring and Mobile Phone-Based Health Coaching Among Finnish Diabetic and Heart Disease Patients: Randomized Controlled Trial. Journal of Medical Internet Research, 2015, 17, e153.	2.1	105
50	Weight Rhythms: Weight Increases during Weekends and Decreases during Weekdays. Obesity Facts, 2014, 7, 36-47.	1.6	51
51	Quantitative Evaluation of Disease Progression in a Longitudinal Mild Cognitive Impairment Cohort. Journal of Alzheimer's Disease, 2014, 39, 49-61.	1.2	21
52	Standardized Handwriting to Assess Bradykinesia, Micrographia and Tremor in Parkinson's Disease. PLoS ONE, 2014, 9, e97614.	1.1	91
53	Use of Home Telemonitoring to Support Multidisciplinary Care of Heart Failure Patients in Finland: Randomized Controlled Trial. Journal of Medical Internet Research, 2014, 16, e282.	2.1	97
54	Guided physical exercise of cardiac patients during rehabilitation: Adherence and changes in physiological variables. , 2013, , .		0

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55	Detection of sleep-disordered breating with Pressure Bed Sensor. , 2013, 2013, 1342-5.		6
56	The PredictAD project: development of novel biomarkers and analysis software for early diagnosis of the Alzheimer's disease. Interface Focus, 2013, 3, 20120072.	1.5	26
57	Predicting AD Conversion: Comparison between Prodromal AD Guidelines and Computer Assisted PredictAD Tool. PLoS ONE, 2013, 8, e55246.	1.1	31
58	A MATLAB toolbox for classification and visualization of heterogenous multi-scale human data using the Disease State Fingerprint method. Studies in Health Technology and Informatics, 2013, 189, 77-82.	0.2	4
59	Application of the PredictAD Software Tool to Predict Progression in Patients with Mild Cognitive Impairment. Dementia and Geriatric Cognitive Disorders, 2012, 34, 344-350.	0.7	10
60	Software Tool for Improved Prediction of Alzheimerâ€™s Disease. Neurodegenerative Diseases, 2012, 10, 149-152.	0.8	14
61	Improved Classification of Alzheimer's Disease Data via Removal of Nuisance Variability. PLoS ONE, 2012, 7, e31112.	1.1	46
62	Design and Application of a Generic Clinical Decision Support System for Multiscale Data. IEEE Transactions on Biomedical Engineering, 2012, 59, 234-240.	2.5	40
63	Spectral Entropy as a Measure of Hypnosis and Hypnotic Drug Effect of Total Intravenous Anesthesia in Children during Slow Induction and Maintenance. Anesthesiology, 2012, 116, 340-351.	1.3	26
64	A Disease State Fingerprint for Evaluation of Alzheimer's Disease. Journal of Alzheimer's Disease, 2011, 27, 163-176.	1.2	75
65	Identification of Adequate Neurally Adjusted Ventilatory Assist (NAVA) During Systematic Increases in the NAVA Level. IEEE Transactions on Biomedical Engineering, 2011, 58, 2598-2606.	2.5	16
66	Increased variation of the response index of nociception during noxious stimulation in patients during general anaesthesia. Computer Methods and Programs in Biomedicine, 2011, 104, 154-160.	2.6	5
67	An ontology-based framework aiming to support personalized exercise prescription: Application in cardiac rehabilitation. , 2011, 2011, 1567-70.		9
68	A personalized approach for predicting the effect of aerobic exercise on blood pressure using a Fuzzy Inference System. , 2011, 2011, 8299-302.		7
69	Automatic feature selection and classification of physical and mental load using data from wearable sensors. , 2010, , .		12
70	Discovery and use of efficient biomarkers for objective disease state assessment in Alzheimer's disease. , 2010, 2010, 2886-9.		9
71	Relationship of Psychological and Physiological Variables in Long-Term Self-Monitored Data During Work Ability Rehabilitation Program. IEEE Transactions on Information Technology in Biomedicine, 2009, 13, 141-151.	3.6	29
72	The Narcotrend Index Indicates Age-Related Changes During Propofol Induction in Children. Anesthesia and Analgesia, 2009, 109, 53-59.	1.1	14

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73	Prediction of poor outcome using detector of epileptiform EEG in ICU patients resuscitated after cardiac arrest. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 3056-9.	0.5	5
74	Assessment of surgical stress during general anaesthesia. British Journal of Anaesthesia, 2007, 98, 447-455.	1.5	241
75	Entropy is more resistant to artifacts than bispectral index in brain-dead organ donors. Intensive Care Medicine, 2007, 33, 133-136.	3.9	26
76	Entropy and bispectral index in brain-dead organ donors: authors' reply. Intensive Care Medicine, 2007, 33, 921-922.	3.9	1
77	Quantification of Epileptiform Electroencephalographic Activity during Sevoflurane Mask Induction. Anesthesiology, 2007, 107, 928-938.	1.3	41
78	Spectral Entropy as a Measure of Hypnosis in Children. Anesthesiology, 2006, 104, 708-717.	1.3	42
79	Method for the Automatic Detection of Epileptiform Waveforms in Sevoflurane-induced Anesthesia EEG. , 2006, 2006, 6343-6.		4
80	Novel multiparameter approach for measurement of nociception at skin incision during general anaesthesia â€ â€¡. British Journal of Anaesthesia, 2006, 96, 367-376.	1.5	81
81	Spectral Entropy Monitoring Is Associated with Reduced Propofol Use and Faster Emergence in Propofolâ€“Nitrous Oxideâ€“Alfentanil Anesthesia. Anesthesiology, 2005, 103, 274-279.	1.3	90
82	EEG spectral entropy, heart rate, photoplethysmography and motor responses to skin incision during sevoflurane anaesthesia. Acta Anaesthesiologica Scandinavica, 2005, 49, 284-292.	0.7	102
83	Longâ€term Selfâ€monitoring of Weight: A Case Study. Cognitive Behaviour Therapy, 2005, 34, 108-114.	1.9	9
84	Health monitoring in the home of the future. IEEE Engineering in Medicine and Biology Magazine, 2003, 22, 66-73.	1.1	384
85	Methods for Assessing Adequacy of Anesthesia. Critical Reviews in Biomedical Engineering, 2002, 30, 99-130.	0.5	13
86	Improved monitoring for brain dysfunction in intensive care and surgery: introduction. Computer Methods and Programs in Biomedicine, 2000, 63, 157-159.	2.6	1
87	Technical description of the IBIS Data Library. Computer Methods and Programs in Biomedicine, 2000, 63, 175-186.	2.6	11
88	Modelling techniques and their application for monitoring in high dependency environments â€” learning models. Computer Methods and Programs in Biomedicine, 1996, 51, 75-84.	2.6	4